## PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

International application No.	Applicant's or agent's file reference 28891		see Form PCT/ISA/220 Il as, where applicable, item 5 below.							
Applicant ROMOV AT TEL AVIV UNIVERSITY LTD.  This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of 3 sheets.  It is also accompanied by a copy of each prior art document cited in this report.  1. Basis of the Report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. II.  2. Certain claims were found unsearchable (See Box No. III)  4. With regard to the title,  the text is approved as submitted by the applicant.  the text has been established by this Authority to read as follows:  5. With regard to the abstract,  the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.  6. With regard to the drawings,  a. the figure of the drawings to be published with the abstract is Figure No. Lac  as suggested by this Authority, because the applicant failed to suggest a figure.										
according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of 3 sheets.  It is also accompanied by a copy of each prior art document cited in this report.  1. Basis of the Report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.  Certain claims were found unsearchable (See Box No. II)  4. With regard to the title,  With regard to the title,  the text is approved as submitted by the applicant.  the text has been established by this Authority to read as follows:  5. With regard to the abstract,  the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.  6. With regard to the drawings,  a. the figure of the drawings to be published with the abstract is Figure No. Lac_  as suggested by the applicant.  As selected by this Authority, because the applicant failed to suggest a figure.	Applicant									
<ul> <li>5. With regard to the abstract,  the text is approved as submitted by the applicant.  the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.</li> <li>6. With regard to the drawings,  a. the figure of the drawings to be published with the abstract is Figure No. la-c  as suggested by the applicant.  as selected by this Authority, because the applicant failed to suggest a figure.</li> </ul>	This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of 3 sheets.  It is also accompanied by a copy of each prior art document cited in this report.  1. Basis of the Report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.  Certain claims were found unsearchable (See Box No. II)  Unity of invention is lacking (See Box No. III)  With regard to the title,									
as selected by this Authority, because this figure better characterizes the invention.  b. none of the figures is to be published with the abstract.	5. With regard to the abstract, the text is approved as subtract the text has been established may, within one month from the figure of the drawings, a. the figure of the drawings to be as suggested by the as selected by this as selected by this	nitted by the applicant.  d. according to Rule 38.2(b), by this Author the date of mailing of this international so published with the abstract is Figure No. e applicant.  Authority, because the applicant failed to so	earch report, submit comments to this Authority.  La-c  suggest a figure.							

Form PCT/ISA/210 (first sheet) (January 2004)

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL05/00090

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : G01N 21/64; C12M 1/36; G01N 1/10  US CL : 422/82.07, 82.11, 102; 435/286.5, 288.5, 288.7; 356/246, 442; 250/238  According to International Patent Classification (IPC) or to both national classification and IPC  B. CELDS SEARCHED								
B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols)								
U.S.: 422/82.07, 82.11, 102; 435/286.5, 288.5, 288.7; 356/246, 442; 250/238								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)								
C. DOC	JMENTS CONSIDERED TO BE RELEVANT							
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.					
x	US 6,664,104 B2 (POUAHMADI ET AL.) 16 Decem 13-15, 57-60; col.6, lines 8-14; col.8, lines 26-27; col	aber 2003 (16.12.2003), see col.3, lines .13, lines 5-20; col.17, lines 62-67.	1- 13,15,17,18,21,32,33,3 5-37,39-46,49-59,129- 155,172,175,176,179- 185,200,201,203- 205,208- 211,215,218,220,232					
х	US 6,565,815 B1 (CHANG ET AL.) 20 May 2003 (2	0.05.2003), see description of figure 5.	129-155					
A			156-242					
A	US 5,580,523 A (BARD) 03 December 1996 (03.12.	1996), see description of figure 3.	101-128					
A	US 6,331,274 B1 (ACKLEY ET AL.) 18 December 2 figures 7a thur figure 9.	129-242						
Further	documents are listed in the continuation of Box C.	See patent family annex.						
"A" document	pecial categories of cited documents:  defining the general state of the art which is not considered to be of	"I" keter document published after the inten- and not in conflict with the application to principle or theory underlying the inven-	out cited to understand the					
"B., est, jet sb	relevance plication or patent published on or after the international filing date	"X" document of particular relevance; the classifiered novel or cannot be considered when the document is taken alone	aimed invention cannot be ad to involve an inventive step					
establish specified		"Y" document of particular relevance; the claimed invention earmot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious						
ł	t referring to an oral disclosure, use, exhibition or other means	to a person skilled in the art	<b></b>					
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed								
i .	ctual completion of the international search	Date of mailing of the international search report 23 SEP 2003						
	ailing address of the ISA/US	Authorized officer	TITION					
Ma	il Stop PCT, Attn: ISA/US munissioner for Patents	John Kim	in the second					
P.O. Box 1450 Alexandria, Virginia 22313-1450  Telephone No. 571-272-1700								
Facsimile No. (703) 305-3230								

Form PCT/ISA/210 (second sheet) (January 2004)

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL05/00090

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Kox IV	3 F.X I	UFIRE	ABSTRACT	(Continuation	or rean	ou me	met meet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

#### **NEW ABSTRACT**

A device (10) for detecting a presence of an analyte in a sample. The device (10) comprises a device body configured with at least one reaction chamber (12) configured for containing a sensor (18) capable of producing a detectable signal when exposed to the analyte in the sample. The reaction chambers (12) are in fluid communication with at least one sample port (16) and at least one actuator port (34) via a first set of microfludic channels (14) arranged such that application of a negative pressure to actuator port (34) delivers fluid placed in the sample port (16) to the reaction chambers (12).

Form PCT/ISA/210 (continuation of first sheet(3)) (January 2004)